

WHAT IS CLAIMED IS:

1. A wrench including an enclosed box portion, the enclosed box portion comprising:

a circular opening;

5 a C-shaped seat on a bottom of the circular opening, the C-shaped seat having a C-shaped groove and a diameter larger than that of the circular opening;

a substantially crescent first cavity disposed at one side of the circular opening and being in communication therewith;

10 a substantially half-circular second cavity adjacent a handle of the wrench and being in communication with the adjacent first cavity;

a ratchet wheel disposed in the circular opening;

pawl means disposed in the first cavity, the pawl means including a toothed section at one side and two continuous convex members at the other side;

15 an upright swing assembly fastened in the second cavity, the swing assembly including a trigger member on a top of the enclosed box portion, two arcuate members at opposite sides, a spring in a transverse hole, and two steel balls at both ends of the spring; and

20 ring means including an annular recess and a flexible C-ring put on the recess, the ring means being fitted onto the seat with the recess being flush with the groove so that the C-ring is adapted to resiliently expand to dispose in both the recess and the groove for retaining the ratchet wheel in place,

whereby counterclockwise turning the trigger member will disengage the steel balls from the convex members to be in contact with a wall of the second cavity and disengage the pawl means from the ratchet wheel; continuously
25 counterclockwise turning the trigger member will bias one steel ball against one convex member for engaging the pawl means with the ratchet wheel, thereby

causing the wrench to exert force toward a first direction; clockwise turning the wrench will cause the ratchet wheel to be inoperative, thereby adjusting an angle of the exerted force; clockwise turning the trigger member will disengage the steel balls from the pawl means to engage with the wall of the second cavity
5 and disengage the pawl means from the ratchet wheel; and continuously clockwise turning the trigger member will bias the other steel ball against the other convex member for engaging the pawl means with the ratchet wheel, thereby causing the wrench to exert force toward a second direction opposite to the first direction.

10 2. The wrench of claim 1, further comprising a recessed aperture on a bottom of the enclosed box portion, the aperture being in communication with the second cavity.

3. The wrench of claim 2, wherein the swing assembly further comprises a cylindrical projection having inner threads inserted into the aperture for being
15 adapted to fasten the swing assembly in the second cavity by driving a fastener into the projection.